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Garza 430068

Garza Mini Infrared Motion Detector Instruction Manual

Model: 430068

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Garza Mini Infrared Motion Detector. This device is designed to detect temperature changes within its field of action, activating connected loads (e.g., lights) when motion is detected. Its IP44 protection rating makes it suitable for both indoor and outdoor applications.



Figure 1: Front view of the Garza Mini Infrared Motion Detector. This image displays the compact design and the sensor lens.

2. SAFETY INFORMATION

- Installation should be performed by a qualified electrician or in accordance with local electrical codes.
- Ensure power is disconnected at the main circuit breaker before installation or maintenance.
- Do not exceed the maximum load capacity of 800W for incandescent bulbs or 400W for CFL/LED bulbs.
- Avoid installing the detector near heat sources (e.g., air conditioning vents, heaters) or in direct sunlight, as this may cause false triggers.
- Do not immerse the device in water, despite its IP44 rating, which protects against splashing water and dust.
- Keep out of reach of children.

3. PRODUCT FEATURES

- High sensitivity PIR motion sensor.
- Adjustable light-on time: 10 seconds to 15 minutes.
- Adjustable brightness level for activation: 3 - 2000 lux (day/night identification).
- Detection distance up to 12 meters.
- 180° coverage angle.
- IP44 protection level for indoor and outdoor use.
- Supports maximum power of 800W incandescent, 400W CFL and LED.
- Power: 220-240V/AC; 50Hz.

4. PACKAGE CONTENTS

- 1 x Garza Mini Infrared Motion Detector
- Mounting screws and bracket
- Instruction Manual (this document)

5. TECHNICAL SPECIFICATIONS

Model Number	430068
Power Source	220-240V/AC; 50Hz
Detection Angle	180°
Detection Distance	Up to 12 meters
Time Delay Adjustment	10 seconds to 15 minutes
Ambient Light Adjustment	3 - 2000 lux
Rated Load	800W (incandescent), 400W (CFL/LED)
IP Rating	IP44
Dimensions	5.5 x 8 x 6.8 cm
Weight	96 g

6. SETUP AND INSTALLATION

The Garza Mini Infrared Motion Detector is designed for simple wall or ceiling installation. Ensure the power supply is disconnected before proceeding.

6.1 Mounting Location

- Choose a location where the detector's 180° coverage angle can effectively monitor the desired area.
- Avoid mounting near direct heat sources, strong air currents, or areas with rapid temperature changes to prevent false triggers.
- For optimal detection, mount the sensor at a height of 1.8 to 2.5 meters.

6.2 Wiring Diagram

Warning: Disconnect power before wiring. Incorrect wiring can cause damage to the device or electrical shock.

1. Connect the Live (L) wire from the power supply to the 'L' terminal on the detector.
2. Connect the Neutral (N) wire from the power supply to the 'N' terminal on the detector.
3. Connect the Switched Live (L') wire from the detector to the Live terminal of your light fixture.
4. Connect the Neutral wire from your light fixture to the 'N' terminal on the detector (or directly to the main neutral if applicable).

Consult a qualified electrician if you are unsure about the wiring process.

6.3 Physical Installation

1. Mark the desired mounting points on the wall or ceiling using the provided bracket as a template.
2. Drill holes and insert wall plugs if necessary.
3. Secure the mounting bracket to the surface using the provided screws.
4. Connect the wiring as described in Section 6.2.
5. Attach the motion detector unit to the mounting bracket, ensuring it is securely fastened.





Figure 2: Garza Mini Infrared Motion Detector mounted on a wall. This image shows the compact design of the detector installed on a white wall, illustrating its discreet presence.

7. OPERATION AND ADJUSTMENTS

After installation, restore power to the circuit. The detector will enter a warm-up period (typically 30-60 seconds) during which it may trigger randomly. After this, it will be ready for adjustment.

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Detector de movimiento de pared mini 180°

Detetor de movimento de parede mini | Wall mini motion sensor



12M



10SEC-
15MIN



3-2000
LUX

**SENSOR
180°**



INFRARROJOS

INFRAVERMELHOS
INFRARED

MINI



Figure 3: Garza Mini Infrared Motion Detector showing the adjustment dials. This image displays the 'TIME' and 'LUX' dials located on the underside of the sensor for configuration.

7.1 Time Delay Adjustment (TIME)

The 'TIME' dial controls how long the connected light remains on after motion is detected and then ceases. It can be adjusted from approximately 10 seconds to 15 minutes.

- Turn the dial clockwise to increase the time delay.
- Turn the dial counter-clockwise to decrease the time delay.
- If motion is detected again before the set time delay expires, the timer will reset and restart from that moment.

7.2 Ambient Light Adjustment (LUX)

The 'LUX' dial determines the ambient light level at which the detector will become active. This allows the sensor to operate only when it is dark enough, saving energy during daylight hours.

- Turn the dial towards the 'sun' symbol (higher LUX value) for the detector to operate during both day and night.
- Turn the dial towards the 'moon' symbol (lower LUX value) for the detector to operate only in low light conditions or at night.
- To test during the day, set the LUX dial to the 'sun' symbol. Once satisfied with the time delay, adjust the LUX dial to the desired night-time activation level.

8. MAINTENANCE

- **Cleaning:** Periodically wipe the sensor lens with a soft, dry cloth to remove dust or dirt that may obstruct detection. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check the mounting and wiring for any signs of damage or loosening.
- **Environmental Factors:** Ensure the detection area remains clear of obstructions that could block the sensor's view or cause false triggers (e.g., swaying branches, large moving objects).

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on when motion is detected.	<ul style="list-style-type: none">• No power supply.• Incorrect wiring.• LUX setting too low (set for night only, but it's daytime).• Bulb faulty.• Motion outside detection range/angle.	<ul style="list-style-type: none">• Check power supply and circuit breaker.• Verify wiring against diagram (Section 6.2).• Adjust LUX dial towards 'sun' symbol for testing.• Replace bulb.• Adjust sensor angle or reposition.
Light stays on continuously.	<ul style="list-style-type: none">• Continuous motion in detection area.• TIME setting too long.• Faulty sensor.	<ul style="list-style-type: none">• Ensure no constant movement (e.g., pets, swaying objects).• Adjust TIME dial to a shorter duration.• Contact customer support if problem persists after checking other causes.

Light turns on without apparent motion (false triggers).	<ul style="list-style-type: none">• Heat sources or rapid temperature changes.• Small animals or insects.• Sensor picking up movement from outside intended area.	<ul style="list-style-type: none">• Relocate sensor away from heat vents, direct sunlight, or reflective surfaces.• Clean sensor lens.• Adjust sensor angle to narrow detection field.
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10. WARRANTY AND SUPPORT

Garza products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or visit the official Garza website. For technical support or inquiries, please contact Garza customer service through their official channels.

